Kolbe Academy

Junior High Math Placement Test

The purpose of this test is to help you determine the appropriate junior high math course for your student. You should set aside one hour to take this test. The student should be placed in a quiet environment with no distractions. The student should be given scrap paper to work out the problems. Do not use a calculator. All questions should be attempted but if the student has no idea how to do a problem, leave the problem blank. When the student has completed the test, you may use the answer key to determine the results of the test. The work should be the students and no help should be given. The purpose of this test is to correctly place your student.

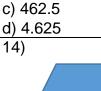
1) What is the correct way to write	2) Which comparison is true?		
8 x 8 x 8 in exponential form? a) 2 ⁸ b) 512 c) 8 ³ d) 64	a) 128,510 > 128,501 b) 128,501 > 128,510 c) 218,510 < 218,501 d) 218,501 > 281,501		
3) Solve for x: $0.018 \div 6 = x$	4) Identify the complete, correct list of the factors of 24		
a) 3 b) 0.3 c) 0.03 d) 0.003	a) 1, 2, 8, 12 b) 1, 3, 6, 12, 24 c) 1, 2, 3, 4, 6, 8, 12, 24 d) 1, 2, 3, 4, 6, 9, 12, 24		
5) What is 3 $\frac{5}{6}$ as an improper fraction?	6) How is $\frac{17}{4}$ written as a mixed		
a) $\frac{18}{6}$ b) $\frac{23}{6}$ c) $\frac{8}{6}$ d) $3\frac{5}{6}$	number? a) $5 \frac{3}{4}$ b) $5 \frac{1}{4}$ c) $4 \frac{1}{4}$ d) $4 \frac{3}{4}$		
7) Anna had $\frac{3}{4}$ of her book completed. What decimal is this equal to?	8) What is the correct order from least to greatest for the following numbers: 23.49, 19.5, 19.84, 23		
a) 0.75 b) 7.5 c) 0.075 d) 0.0075	a) 23.49, 23, 19.84, 19.5 b) 19.5, 19.84, 23.49, 23 c) 19.84, 19.5, 23, 23.49 d) 19.5, 19.84, 23, 23.49		
9) Jared got a 97%, 52%, 95%, and an 89% on his last four math tests. What is his average percentage?	10) Charlie left Barrytown at 7:45 a.m. and arrived in St. Paul at 9:39 a.m. How long did the entire trip take?		
a) 81.33% b) 83.25% c) 85% d) 85.25%	a) 1 hour and 45 minutesb) 1 hour and 54 minutesc) 2 hours and 6 minutesd) 2 hours		

- 11) Jennifer is going to order 10 pizzas for her birthday party. Each pizza costs \$9.45. How much does it cost to buy 10 pizzas?
- 12) Larry and Hank have 9.25 pieces of dessert left over from their party and they are going to divide it evenly. How many pieces does each boy get?

- a) \$945.00
- b) \$0.95
- c) \$945.50
- d) \$94.50

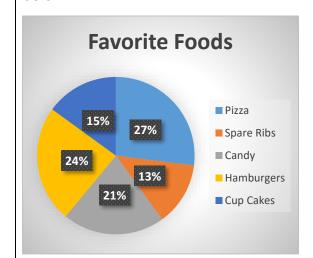
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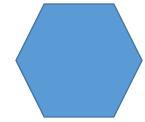
13) Jimmy took a survey of students at his school to determine what their favorite foods were. The results are on the graph



a) 46.25

b) 4.025





is an example of a(n)

- a) octagon
- b) hexagon
- c) pentagon
- d) nonagon
- What is the percent of students who chose spare ribs or pizza as their favorite foods?
- a) 5%
- b) 35%
- c) 40%
- d) 50%
- 15) What place value does 4 hold in the number 72,341?
- 16) What is $\frac{1}{3}$ of 12?

- a) ones
- b) tens
- c) hundreds
- d) thousands

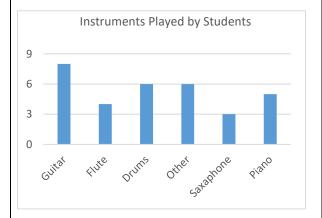
- a) 5
- b) 3
- c) 4
- d) 2

17) Find the greatest common factor	18) What is the correct word form of		
(GCF) of 28 and 32	6.43?		
a) 1	a) six and forty-three hundredths		
b) 4	b) six and forty-three thousandths		
c) 5	c) six and forty-three		
d) 6	d) six and forty-three tenths		
19) Terry answered 18 out of 25	20) Solve for x:		
questions correctly. What percentage of the questions did he answer correctly?	100 • 5.381 = x		
·	a) 0.05381		
a) 72%	b) 538.1		
b) 18%	c) 5,381		
c) 7%	d) 53.81		
d) 75% 21) Identify the prime factorization for 56	22) What are the missing two numbers in		
21) Identity the prime factorization for 30	the pattern 12, 16, 13, 17, 14,,, 19		
a) 8 x 7	ine pattern 12, 10, 13, 17, 14,,, 13		
b) 2 x 3 ²	a) 10, 11		
c) 7 x 2 ³	b) 18, 15		
d) 2 x 4 x 7	c) 15, 18		
00) WII - D. L.	d) 11, 21		
23) When Robert checked his messages,	24) Solve for m:		
5/12 of the messages were from friends,	4 5		
4/21 was solicitors, and 1/3 were from his	$\frac{4}{9} + m = \frac{5}{6}$		
family. What fraction of the messages			
were from his family and friends? Reduce to lowest terms.			
to lowest terms.	5		
a) 1 1	a) 1 $\frac{5}{18}$		
a) 1 $\frac{1}{12}$			
11	b) $\frac{23}{18}$		
b) $\frac{11}{24}$	['] 18		
b) $\frac{11}{24}$, 11		
c) ¹	c) $\frac{11}{18}$		
c) $\frac{1}{6}$			
	d) $\frac{7}{18}$		
d) $\frac{3}{4}$	´ 18		
4			

25) A triangle has two angles that measure 35° and 65°. What is the measure of the missing angle?

Hint: The sum of the angles in a triangle = 180°

- a) 150°
- b) 100°
- c) 80°
- d) 70°
- 27) What percent is the same as $\frac{3}{4}$?
- a) 60%
- b) 65%
- c) 75%
- d) 50%
- 29) According to the bar graph, approximately how many students play the piano or play the guitar?



- a) 15
- b) 18
- c) 13
- d) 10
- 31) Solve for x:
- 0.615 0.4 = x
- a) 0.115
- b) 0.235
- c) 0.615
- d) 0.215

26) Use the line below to help answer the question. What is the next number in the pattern: -6, -5, -3, 0

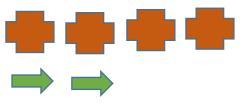


- a) 4
- b) 5
- c) 6
- d) 7
- 28) Which expression best demonstrates the distributive property for the equation: $2 \times (4 + 3) =$ ____
- a) $(2 \times 4) + (2 \times 3)$
- b) $(2 \times 4) + 3$
- c) $(2 + 4) \times (2 + 3)$
- d) (2 x 4) x (2 x 3)
- 30) Solve for p: $\frac{19}{25} \frac{4}{25} = p$

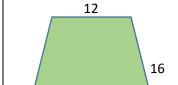
Reduce to lowest terms

- a) $\frac{23}{25}$
- b) $\frac{1}{5}$
- c) $\frac{3}{5}$
- d) $\frac{3}{25}$
- 32) What is the radius of a circle that has diameter of 10 cm
- a) 20 cm
- b) 15 cm
- c) 10 cm
- d) 5 cm

33) What is the ratio of arrows to crosses? Remember to express the ratio in lowest terms.



- a) 1:2
- b) 4:6
- c) 2:1
- d) 2:4



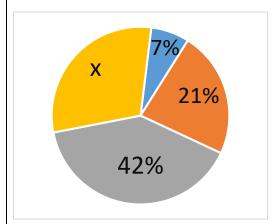
34) What is the perimeter of the figure?

- 20
- a) 64 in.
- b) 48 in.
- c) 16 in.
- d) 60 in.
- 35) Identify the list of numbers that has all prime numbers.
- a) 1, 3, 5, 9
- b) 3, 5, 7, 11
- c) 2, 4, 6, 8
- d) 1, 2, 3, 4

- 36) 14 cookies were plain chocolate cookies and 7 had icing on them. What is the ratio of iced cookies to chocolate cookies, in lowest terms?
- a) 14:7
- b) 7:1
- c) 1:2
- d) 2:1
- 37) What equation best matches this situation? After Peter paid \$10.95 for his new T-shirt, he had \$4.36 left. Which expression shows how to find how much money Peter started with?
- a) \$4.36 + x = \$10.95
- b) \$10.95 + x = \$4.36
- c) x \$10.95 = \$4.36
- d) \$10.95 \$4.36 = x
- 39) Round 9.19362 to the nearest thousandth.
- a) 9.19
- b) 9.194
- c) 9.193
- d) 9.2

- 38) Lucy ran the 400-meter race 3 times. Her fastest time was 52.3 seconds. Her slowest time was 58.1 seconds. If her average time was 55.0 seconds, what was her time for the third race?
- a) 1200 sec
- b) 54.6 sec
- c) 55.1 sec
- d) 54.9 sec
- 40) How many quarter-pound hamburgers can be made from 100 pounds of ground beef?
- a) 400
- b) 25
- c) 50
- d) 200

41) Using the given chart, find the percentage of x:



- a) 30%
- b) 20%
- c) 110%
- d) 29%
- 43) A box of pasta has the following dimensions: height of 12 inches and width of 2 inches. If the volume of the box is 192 cubic inches, find the length of the box.

Hint: Volume = length x width x height

- a) 10 inches
- b) 8 inches
- c) 14 inches
- d) 6 inches
- 45) Convert 0.32 to a fraction
- a) $\frac{1}{25}$
- b) $\frac{1}{32}$
- c) $\frac{1}{64}$
- d) $\frac{8}{25}$

- 42) How many ounces are in 4.5 pounds? Hint: 16 ounces = 1 pound
- a) 6.2 ounces
- b) 0.28 ounces
- c) 66 ounces
- d) 72 ounces

44) Simplify:

$$3^3 + 2(8 - 4) \div 4$$

- a) 65
- b) 41
- c) 29
- d) 30
- 46) Daryl scored $\frac{1}{4}$ of the points at last

night's soccer game. What percentage of the total points did he score?

- a) 14%
- b) 20%
- c) 25%
- d) 40%

47) Which of the following is a translation of "four less than two times a number x" a) 2x-4 b) 4x-2 c) 4-2x d) 2-4x 49) What is the mathematical expression for "the 250 points earned was split between all the people and each got 25"? a) 250 - p = 25 b) 250/p = 25 c) 250p = 25 d) 250p + 25 31) The length of a track around a field is tack. How far do you jog? a) $\frac{1}{2}$ miles b) $\frac{1}{2}$ miles c) $\frac{2}{5}$ miles d) 1 mile 53) In an auditorium there are 25 rows with 18 chairs in each row. How many chairs are in the auditorium? a) 250 b) 400 c) 450 48) Solve: 8 + 4((2+6)^2 - (2³ + 5)] a) 222 b) 36 c) 97 d) 212 50) Using the pattern of two prisms below. How many cubes will there be in a third prism? a) 12 b) 24 c) 27 d) 32 52) Which digit is in the hundred-thousands place in the number 987,654,321? a) 4 b) 5 c) 6 d) 7 54) The area of a square is 64 cm2. What is the perimeter of the square? a) 64 cm b) 32 cm c) 16 cm d) 8 cm
a) $2x-4$ b) $4x-2$ c) $4-2x$ d) $2-4x$ d) $2-2x$ d) 2
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a) 250 b) 32 cm c) 16 cm
b) 400 c) 16 cm
, ,
1 mg m m m m m m m m m m m m m m m m m m
d) 500

55) What is the average of 4.2, 2.61, and	56) Frank has 224 board games. He	
3.6?	bought $\frac{3}{4}$ of his games on the Internet.	
a) 3.25 b) 3.47 c) 2.98 d) 4.2	Of the games he bought on the Internet,	
	$\frac{1}{6}$ are card games. How many card	
	games did he buy on the Internet?	
	a) 14 games	
	b) 30 games	
	c) 28 games	
	d) 42 games	

Answer Key

1. C	15. B	29. C	43. B
2. A	16. C	30. C	44. C
3. D	17. B	31. D	45. D
4. C	18. A	32. D	46. C
5. B	19. A	33. A	47. A
6. C	20. B	34. A	48. D
7. A	21. C	35. B	49. B
8. D	22. B	36. C	50. C
9. B	23. D	37. C	51. C
10. B	24. D	38. B	52. C
11. D	25. C	39. B	53. C
12. D	26. A	40. A	54. B
13. C	27. C	41. A	55. B
14. B	28. A	42. D	56. C

Less than 20 right: Student may struggle in Math 7. Consider doing math bridge work in the summer.

20-37 correct: Student may be placed in Math 7

38-56 correct: Student may be placed in Math 8